

| Application/Control No. | Applicant(s)/Patent under Reexamination |
|-------------------------|---|
| 10/830,036              | KAMINAGA ET AL.                         |
| Examiner                | Art Unit                                |
| Jimmy T. Vu             | 2821                                    |

| Rejected | 1 | (Through numeral)<br>Cancelled |
|----------|---|--------------------------------|
| Allowed  | + | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| 1 | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|       |          |          | _              |  | _          |     |                  |          | _ |         | <b>7</b> :::: | _         |       |               |  |          |                 |   | 1-4-     | -        |          |          | ٦::      | ij٢ | Cli      | zim_       | _              |                |          | _        | ete  |           |          |          | _        |
|-------|----------|----------|----------------|--|------------|-----|------------------|----------|---|---------|---------------|-----------|-------|---------------|--|----------|-----------------|---|----------|----------|----------|----------|----------|-----|----------|------------|----------------|----------------|----------|----------|--|-----------|----------|----------|----------|
| Cle   | im       | _        |                |  |            | Dat | 8_               | _        | _ | _       | -             | $\vdash$  | Clain | _             | _  | -        |                 | 뿌 | ate      | _        | _        | _        | -        | -   | - CIE    |            |                | -1             | _        | ┪        | 1  | _         | Т        | - 1      | _        |
| Final | Original | 1/29/05  |                |  |            |     |                  |          |   |         |               | Final     |       | Original      |  |          |                 |   |          |          |          |          |          |     | Final    | Original   |                |                |          |          |  |           |          |          |          |
|       | (J       | 犲        | ┪              | -  |            | ⊢   | ┪                | Н        | H | ╁       | 1             | ┢         | 1:    | 31            | 寸  | ┪        | 十               | 7 | 7        | 1        | 丁        | T        | 78       | ı   |          | 101        |                |                |          |          |  | $\Box$    |          | $\Box$   | _        |
|       | 2        | 7        | $\dashv$       |  | _          | ┢   | ٢                | ┪        | t | t       | 1             | Т         |       | 2             | ┪  | ヿ        | ヿ               | 7 |          | 7        | $\neg$   | 1        |          |     |          | 102        |                | $\Box$         |          |          |  |           |          | $\Box$   |          |
|       | 3        | V        | 一              |  | _          | 1   | ┰                | T        | T | T       | ۱             |           | 7     | 3             | $\Box$   |          |                 | 1 |          | $\Box$   |          | $\perp$  | ╗        |     |          | 103        |                | $\Box$         | $\Box$   |          |  |           |          |          | _        |
|       | 4        | 1        |                |  |            | Г   | T                | T        | T | Т       |               |           | 1     | 34            | $\Box$   |          |                 |   |          |          |          | $\perp$  |          |     |          | 104        |                | _              |          | _        | _  | _         | 4        | _        | _        |
|       | 5        | 1        |                |  |            | Г   | Т                | П        | Г | Τ       | 7             |           |       | 55            |  |          |                 | _ |          |          |          | $\perp$  | ╝        | ░.  |          | 105        |                | _              |          |          | _  | _         | 4        | 4        |          |
|       | 6        | Į        |                |  |            |     |                  |          | Π | Τ       | ]             |           | _     | 56            | $\Box$   |          |                 |   |          | _        | $\perp$  | _L       | _        |     |          | 106        |                | _              | _        |          | 4  | _         | 4        | 4        | _        |
|       | 7        | X        |                |  |            |     |                  | $\Box$   | L |         |               |           |       | 57            | _  | ┙        | 4               | ┙ | _        | 4        | 4        | 4        | _        |     |          | 107        |                | _              |          |          |  | 4         | -        | 4        | _        |
|       | 8        | 7        |                |  |            |     |                  |          | L | L       |               | L         |       | 58            | _  | _        | 4               | 4 | 4        | 4        | 4        | 4        | 4        |     |          | 108        | $\dashv$       |                |          | -        | 4  |           | 4        | -4       | -        |
|       | 9        | 7        |                |  | Ц          | 匚   | L                | L        | L | ┸       |               | L         | _     | 59            | _  | 4        | 4               | 4 | 4        | -        | +        | 4        | -1       |     |          | 109        | $\vdash$       |                |          | _        | $\dashv$   | -1        | -+       | $\dashv$ | $\vdash$ |
|       | 10       | ¥        |                |  | _          | L   | 丄                | L        | L | ┸       | _             | <u>_</u>  |       | 50            |  | 4        | -+              | - | -        | -+       | +        | +        | -        | ۱   |          | 110        |                |                | _        | Н        | $\dashv$   | -         | +        | -+       | _        |
|       | 11       | Ш        | Ш              | _  | _          | _   | ┺                | 4_       | ╀ | 4       | 4             |           |       | 51            |  | -        | -4              |   | -        | 4        | +        | +        | -        | 1   |          | 111        | $\vdash$       |                | -        | $\vdash$ | -  | -         | +        | -1       | _        |
|       | 12       | Ш        | Ш              | _  | L          | ┡   | ╄                | ╄        | ╀ | +       | -             | <b> -</b> |       | 52            | }  |          | -               | 4 | -        | -        | +        | +        | -        | ⊪   |          | 112<br>113 | $\vdash$       | $\dashv$       | $\dashv$ | $\vdash$ |  |           | +        | -+       | -        |
|       | 13       | $\sqcup$ | Ш              |  | ┡          | ┡   | +                | ╄-       | ╀ | +-      | -             | <b>⊩</b>  |       | 53            |  | -        | $\dashv$        | - |          | +        | +        | +        | -        | ⊪   |          | 114        | H              | $\vdash$       |          | $\vdash$ |  | -1        | $\dashv$ | ┥        | Г        |
|       | 14       | Н        | Щ              | _  | <b> </b> - | ╀-  | ╀                | +-       | ╀ | ╀       | -             | -         |       | 54<br>55      | -1   |          | $\dashv$        | ᅱ | -        | $\dashv$ | +        | +        | -        | ⊪   |          | 115        | Н              | $\vdash$       | $\dashv$ | Н        | Н  |           | $\dashv$ | -        | Η        |
|       | 15       | ╟╢       | Н              | _  | $\vdash$   | ⊢   | ╀                | ╂        | ╀ | +       | -             | -         |       | 55<br>56      | $\dashv$   | ┪        | -+              | ┥ |          | $\dashv$ | +        | ┰        | -        |     |          | 116        | Н              | Н              | $\dashv$ | Н        | -  | ┪         | 7        | 7        | Г        |
|       | 16       | Н        | Н              | -  | $\vdash$   | ⊢   | ╀                | ╁        | ╁ | +       | -             | ⊩         |       | 57            | $\dashv$   | ᅱ        | -+              | ┨ | $\dashv$ | -+       | 十        | +        | -        |     |          | 117        | Н              | Н              |          | Н        | $\vdash$   |           | 7        | -1       | Г        |
|       | 17       | Н        | Н              |  | $\vdash$   | ۲   | ╁                | ╁        | ╁ | 十       | -             | H         |       | 57<br>58      |  |          | -+              | ᅦ | $\dashv$ | ┪        | 十        | 十        | ٦        |     |          | 118        | Н              | Н              | _        | П        | Н  | $\neg$    | 1        | ᅦ        | Γ        |
| -     |          | Н        | Н              | _  | ⊢          | ╀╌  | ╁                | ╀        | ╁ | +       | -             | ⊩         |       | 69            | $\dashv$   |          | 一               | ┪ | -1       | ᅥ        | 7        | 十        | -        |     |          | 119        |                |                |          |          |  | $\neg$    | ┪        | 7        | Г        |
|       | 19<br>20 | Н        | Н              | -  | ⊢          | ╁   | ╁                | ╁        | ╁ | ╫       | -             | -         |       | 70            |  | -1       | -+              | ᅥ | _        | 1        | 十        | +        | -        |     |          | 120        | Н              | Н              |          |          |  |           | 7        | ┪        | Γ        |
|       | 21       | $\vdash$ | Н              | _  | ┢          | ╁╌  | ╁                | ╁╴       | ٠ | ┿       | -             | ┢         |       | 71            |  | -        | ┪               | ┪ |          | 一        | $\dashv$ | 十        |          |     |          | 121        |                |                | _        |          |  |           | ╗        | ╗        | Г        |
|       | 22       | -        | Н              | -  | -          | ┪   | ╈                | ╈        | 十 | +       | ┨░            | -         |       | 72            |  | ┪        | ヿ               |   | $\neg$   | _        | $\top$   | す        | 7        |     |          | 122        |                |                |          |          |  |           |          |          | Γ        |
|       | 23       | H        | Н              | _  | ┢          | ╁╴  | +-               | 十        | t | ╅       | ┨║            | -         |       | 73            |  | ┪        | ┪               |   | ╗        | 寸        |          | ┪        | 7        |     |          | 123        |                |                |          |          |  |           |          |          | Ε        |
|       | 24       | $\vdash$ |                | _  | ┢          | †-  | 1                | †-       | t | ╅       | ┨             |           |       | 74            |  | $\neg$   | ┪               |   |          | 一        | 寸        | T        | 7        |     |          | 124        | П              |                |          |          |  |           |          |          | Г        |
|       | 25       | H        |                | -  | 1-         | t   | 1                | ╈        | T | ╅       | ٦.            | -         |       | 75            |  |          |                 |   |          | ╗        | Т        | $\neg$   |          |     |          | 125        |                |                |          |          |  |           |          |          |          |
|       | 26       | Н        | Т              |  | 1          | T   | Τ                | T        | T | 1       | ╗             | Г         |       | 76            |  |          |                 |   |          |          | П        | $\Box$   |          |     |          | 126        |                |                |          |          |  |           |          | _        | L        |
|       | 27       | Т        | П              | _  | T          | Т   | Т                | Т        | T | Т.      |               |           |       | 77            |  |          |                 |   |          |          |          |          |          |     |          | 127        |                | $oxed{oxed}$   |          |          |  | $\square$ |          | _        | L        |
|       | 28       |          | П              |  | Г          | T   | T                |          | T | Τ.      | ]             |           |       | 78            |  |          |                 |   |          | $\Box$   | $\Box$   | $\perp$  |          |     |          | 128        | <u>_</u>       | Ц              | _        | ┖        | Ш  |           | $\Box$   | _        | L        |
|       | 29       |          |                |  |            |     | Т                | $\Box$   | Ι | $\perp$ |               |           |       | 79            |  |          |                 |   |          | $\Box$   | $\perp$  | 1        | _        |     |          | 129        | Ŀ              |                |          | <u> </u> |  | Ш         | _        | _        | L        |
|       | 30       |          |                |  | Ι.         | Ī   | $\mathbf{I}_{-}$ | $\Gamma$ | Ι |         |               |           |       | 80            |  |          |                 |   |          | _        | _        | $\perp$  | _        |     |          | 130        | L              |                |          | L        | Ш  | Ш         | _        |          | L        |
|       | 31       |          |                |  |            |     | $\mathbf{L}$     |          | Ι | $\perp$ | ╗             |           |       | 81            |  |          | Ц               |   | Щ        |          | _        | 4        | _        |     |          | 131        | <u> </u>       | Щ              |          | ┡        |  |           | _        | _        | ₽        |
|       | 32       |          |                |  | Ĺ          |     | L                | Ļ        | Ţ | 4       | ╝             | L         |       | 82            | Ш  |          | Ц               | _ | Ш        | _        | _        | 4        | 4        |     |          | 132        | -              | -              | <u> </u> | ┢        | Н  | -         | $\dashv$ | $\dashv$ | Ͱ        |
|       | 33       | 匚        |                |  | Ĺ          | L   | 1                | 4        | ╀ | 4       | _[            | $\perp$   |       | <u>83</u>     | Щ  | Ш        | $\dashv$        | _ | Щ        | _        | -+       | 4        | -        |     | <u> </u> | 133        | -              | -              | $\vdash$ | ╀        | ⊢  | <u> </u>  | Н        | -        | H        |
|       | 34       | _        | <u> </u>       | L  | L          | ╄   | ╀                | 4        | 4 | +       | 4             | <b> </b>  |       | 84            | Щ  | Щ        | $\sqcup$        | _ | Н        | _        | -        | +        | -4       |     |          | 134<br>135 | <del> </del> — | Н              | $\vdash$ | ⊢        | -  |           | $\vdash$ | $\dashv$ | H        |
|       | 35       | ₩        | <b> </b> _     | ļ  | ┡          | ╀-  | +                | +-       | + | 4       | -             | -         |       | 85            | Н  | $\vdash$ | $\vdash \vdash$ | - | Н        | 4        | -        | +        | -        |     | ├        | 136        | ⊢              | $\vdash$       | ┝        | $\vdash$ | $\vdash$   | $\vdash$  | Н        | $\dashv$ | H        |
|       | 36       | ₽-       | -              | L  | ╀          | ╄   | ╀                | +        | + | +       | -             | -         |       | 86<br>97      | $\vdash$   | Н        | $\vdash$        | - | H        | Н        | +        | -+       |          |     |          | 137        | ╁              | $\vdash$       | $\vdash$ | $\vdash$ | $\vdash$   | H         | $\vdash$ | $\dashv$ | t        |
|       | 37       | ₩        | ⊢              | H  | ┞          | ╀   | +                | ╀        | ╀ | +       | -             | -         |       | 87<br>88      | $\vdash$   | Н        | ⊢┥              | - | Н        | 4        | $\dashv$ | $\dashv$ | :        |     | ├─       | 138        | ┢╌             | <del>  -</del> | $\vdash$ | $\vdash$ | $\vdash$   | Н         | Н        |          | t        |
|       | 38<br>39 | ╁        | ├-             | ⊢  | ┨          | ╀   | ╁                | ╁        | ╁ | ┿       | -             | -         |       | <del>89</del> | $\vdash$   | Н        | Н               | - | Н        | ۲        | $\dashv$ | +        | -        |     | $\vdash$ | 139        | +              | 1              |          | Т        | <del>                                     </del> |           | Н        | Н        | t        |
|       | 40       | +-       | +              | $\vdash$   | ۰          | +   | ╁                | ╈        | + | ╅       | -             |           |       | <del>90</del> | Н  | $\vdash$ | Н               | - | Н        | H        | $\dashv$ | -†       | $\dashv$ |     | <u> </u> | 140        | Т              | Т              | Г        | 1-       | Г  | Г         | М        |          | T        |
| _     | 41       | ╁        | ┢              | ⊢  | 十          | ╁   | ┿                | ┿        | + | +       | -             | ⊩         |       | 91            | H  | М        | $\vdash$        | _ | Н        |          | 7        | ┪        | ┪        |     |          | 141        | T              |                | Г        | $\vdash$ | Γ  |           |          |          | T        |
|       | 42       | ╁╌       | H              | Н  | ۲          | ╆   | 十                | +        | + | +       | -             |           | _     | 92            | <del>                                     </del> | П        | Н               |   | П        |          | 7        | ┪        |          | Ш   | $\Box$   | 142        | T              |                |          |          | П  |           |          |          | Γ        |
|       | 43       | 十        | ╆              | H  | ✝          | 十   | 十                | 十        | 十 | +       | ╗             | -         | _     | 93            | Т  | П        |                 | _ |          |          | $\Box$   | 寸        |          |     |          | 143        |                |                | $\Gamma$ |          |  |           |          |          | Γ        |
|       | 44       | ╁        | $\vdash$       | $\vdash$   | t          | 十   | +                | +        | 十 | 十       | ۱.            |           |       | 94            | Г  |          | П               |   |          |          |          | _†       |          |     |          | 144        | L              | L              |          |          |  |           |          |          | Γ        |
|       | 45       | ✝        | t              | Н  | t          | †   | +                | 十        | 十 | 1       | ١.            |           |       | 95            | 1  |          | П               |   |          |          |          | J        |          |     |          | 145        |                |                |          | П        |  |           |          |          |          |
|       | 46       | ╆        | +              | 1  | t          | †   | +                | ╈        | † | 十       | 7             |           | _     | 96            | Г  | Г        | П               |   | П        | П        |          |          |          |     |          | 146        | Γ              |                | L        |          | $\Box$   |           |          |          | Γ        |
|       | 47       | ۲        | H              | <del>                                     </del> | 十          | +   | +                | ╈        | 十 | 十       | 7             | -         |       | 97            | Г  | Г        |                 |   |          |          |          |          |          |     |          | 147        |                |                |          |          | Г  |           |          |          | Γ        |
|       | 48       | ╁┈       | ┪              | Т  | t          | T   | +                | T        | † | 十       | 7             |           | ┪     | 98            |  |          |                 |   | Г        |          |          | _1       |          |     |          | 148        |                |                |          |          |  |           |          |          | I        |
| -     | 49       | +        | <del>† -</del> | H  | ۲          | T   | +                | 十        | † | 十       | 7             |           | 寸     | 99            | Г  | Г        | П               |   |          | Г        | П        |          |          |     |          | 149        |                | $\Box$         | Γ        |          |  |           |          |          | Γ        |
|       | , 70     |          | -              | -  | 4-         | -   | +-               |          | + | -       | -18           | -         | _     | 100           | _  | •        |                 | _ | 1        | _        | -        | _        |          |     |          | 150        | Г              | Т              | Г        | Г        | T  | ı         | I        |          | ſ        |